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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/879,469	06/12/2001	Todd J. Gable	IL-10789	4354	
24981	7590 04/25/2005		EXAMINER		
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA			OPSASNICK, MICHAEL N		
LAWRENCE PO BOX 808	E LIVERMORE NATIONA . L-703	ART UNIT	PAPER NUMBER		
	E, CA 94551-0808		2655		
			DATE MAILED: 04/25/2000	e	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	ation No.	Applicant(s)				
Office Action Summary		09/87	9,469	GABLE ET AL.				
		Exam	ner	Art Unit				
			el N. Opsasnick	2655				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn period for reply specified above is less than thirty (3) period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In runication. 0) days, a reply within the atutory period will apply a will, by statute, cause the	o event, however, may a reply be statutory minimum of thirty (30) and will expire SIX (6) MONTHS application to become ABAND	be timely filed I days will be considered timely from the mailing date of this co ONED (35 U.S.C. § 133).	y. ommunication.			
Status								
1)⊠	Responsive to communication(s) file	ed on <u>12 June 200</u>	<u>1</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)⊠ 6)⊠ 7)□	Claim(s) 1-50 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-45 is/are allowed. Claim(s) 46-50 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers		•					
9)⊠ The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Information	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (Function Disclosure Statement(s) (PTO-1449 or Pro-1449) Der No(s)/Mail Date 9/4/01; 5/30/02			nary (PTO-413) ail Date nal Patent Application (PTC	O-152)			

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

2. Claim 50 is objected to because of the following informalities: the phrase "the non-consecutive two-glottal cycle" should read "a non-consecutive two-glottal cycle". Appropriate correction is required.

Allowable Subject Matter

- 3. Claims 1-45 are allowable over the prior art of record.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

As per independent claims 1,16, and 31, the recited claim language pertaining to generating speech feature vectors include a non-acoustic parameters and a non-acoustic glottal shape parameter, is not explicitly taught by the prior art of record.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 46-50 are rejected under 35 U.S.C. 102(e) as being anticipated by Chengalvarayan et al (6055499).

As per claim 46, <u>Chengalvarayan et al (6055499)</u> teaches a method for speech characterization comprising collecting a plurality of data from a speaker (as collecting data from multiple speakers → col. 5 lines 22-33);

"using the plurality of data.....tissues" as generating multiple baseline vectors (col. 5 lines 49-57), from which periodicity and jitter are calculated (col. 5 lines 57-66), wherein jitter is defined as the measure of fluctuation in glottal cycle lengths (col. 2 lines 54-56);

"generating....parameters" as generating multiple baseline vector parameters (col. 5 lines 49-57).

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As per claim 47, Chengalvarayan et al (6055499) teaches:

"wherein creating.....by the speaker" as training set uses multiple repetition (col. 5 lines 30-47).

As per claims 48,49, <u>Chengalvarayan et al (6055499)</u> teaches averaging the jitter function (col. 4 lines 13-17), which is a function of the glottis measurement (col. 2 lines 54-56).

As per claim 50, <u>Chengalvarayan et al (6055499)</u> teaches the jitter function using the previous frame data (n-1) as well as the future frame data (n+1) (col. 4 lines 15-25).

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form. Furthermore, Holzrichter et al (5729694) discloses measurement of glottal functions.
- 8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:
(703) 872 9314,
(for informal or draft communications, please label "PROPOSED" or "DRAFT")

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Doris To, can be reached at (703)305-4827. The facsimile phone number for this group is (571)272-7629.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (703) 305-4750, the 2600 Customer Service telephone number is (703) 306-0377.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mno 4/14/05

> VIJAY CHAWAN PRIMARY EXAMINER